

PROBLEM SUMMARY

Area COLD MILL/CM-3STD-2N Machine Id Inspection Station HPU 3ST2 Inspection Station HPU Component

Hydraulic Power Pack

QUAKER CHEMICAL QUINTOLUBRIC 888-68 (200 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ATTENTION		
Iron	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	3		
Particles >4µm		ASTM D7647	>5000	A 7228	1 6870	A 8138		
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	🔺 1667		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 20/18/14	<u> </u>	2 0/18/14		

Customer Id: CONMUSAL Sample No.: KFS0004868 Lab Number: 06007647 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

08 Feb 2023 Diag: Jonathan Hester





We recommend you service the filters on this component. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

03 Nov 2022 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



view repor



We advise that you check for the source of water entry. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.









OIL ANALYSIS REPORT

COLD MILL/CM-3STD-2N Inspection Station HPU 3ST2 Inspection Station HPU

Component Hydraulic Power Pack

QUAKER CHEMICAL QUINTOLUBRIC 888-68 (200 GAL)

DIAGNOSIS	SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KFS0004868	KFS0002536	KFS0001923
No corrective action is recommended at this time.	Sample Date		Client Info		10 Nov 2023	08 Feb 2023	03 Nov 2022
Resample at the next service interval to monitor.	Machine Age		Client Info		0	0	0
🔺 Wear	Oil Age		Client Info		0	0	0
The iron level is abnormal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition	lron p	pm	ASTM D5185m	>20	A 32	<u> </u>	3
The AN level is acceptable for this fluid. The	Chromium p	opm	ASTM D5185m	>20	0	0	0
condition of the oil is acceptable for the time in	Nickel p	opm	ASTM D5185m	>20	2	<1	0
service.	Titanium p	opm	ASTM D5185m		0	<1	<1
	Silver p	opm	ASTM D5185m		0	0	0
	Aluminum p	opm	ASTM D5185m	>20	0	<1	0
	Lead	opm	ASTM D5185m	>20	0	0	0
	Copper p	opm	ASTM D5185m	>20	3	4	<1
	Tin p	pm	ASTM D5185m	>20	259	251	295
	Vanadium p	opm	ASTM D5185m		0	0	0
	Cadmium p	opm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	opm	ASTM D5185m	0	0	0	<1
	Barium p	opm	ASTM D5185m	0	0	0	0
	Molybdenum p	opm	ASTM D5185m	0	0	0	0
	Manganese p	opm	ASTM D5185m	0	0	<1	0
	Magnesium p	opm	ASTM D5185m	0	0	0	0
	Calcium p	opm	ASTM D5185m	10	0	3	0
	Phosphorus p	opm	ASTM D5185m	200	101	98	107
	Zinc p	ppm	ASTM D5185m	125	74	35	0
	Sulfur p	opm	ASTM D5185m	1000	715	843	423
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	opm	ASTM D5185m	>15	<1	2	<1
	Sodium p	opm	ASTM D5185m		2	2	1
	Potassium p	opm	ASTM D5185m	>20	0	0	0
	Water 9	%	ASTM D6304	>0.05			
	ppm Water p	opm	ASTM D6304	>500			
	FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<u> </u>	1 6870	A 8138
	Particles >6µm		ASTM D7647	>1300	<u> </u>	<mark>▲</mark> 3093	1 667
	Particles >14µm		ASTM D7647	>160	118	a 265	127
	Particles >21µm		ASTM D7647	>40	27	▲ 54	37
	Particles >38µm		ASTM D7647	>10	2	3	5
	Particles >71µm		ASTM D7647	>3	0	1	2
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	▲ 21/19/15	▲ 20/18/14
	FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
	Acid Number (AN)	ng KOH/a	ASTM D8045	1.5	2.88	2.68	1.49

Acid Number (AN)

mg KOH/g ASTM D8045 1.5

Sample Rating Trend

WEAR



OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	50.6	49.8	47.1
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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